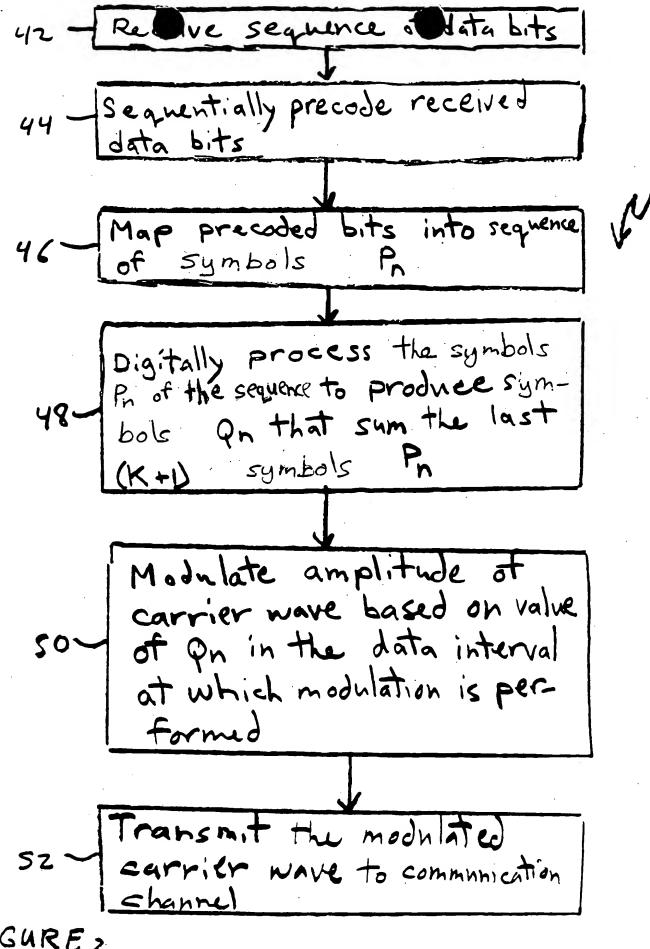
Figure 1



FIGUREZ

WEI-52

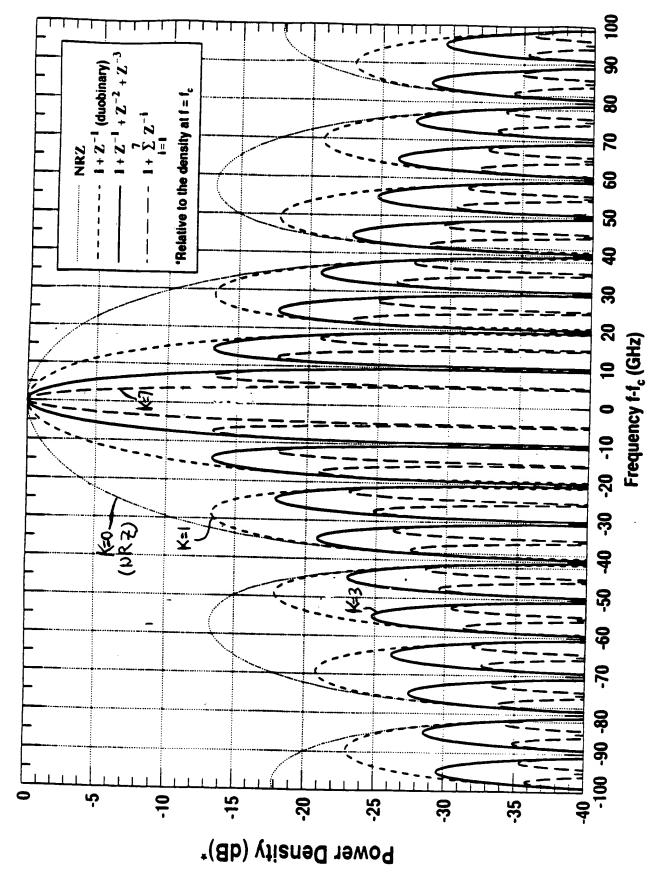


Figure 4

Fitter received select a car	signal to rier wave
	L7
Measure intens	sity of carrier wave
	L74
intensity during	ne of transmitted a data period heasured energy
	L76
Map estimated	d value of trans-

Map estimated value of transmitted intensity to an estimated value of the input
data bit based on a constellation in which multiple
intensity values correspond to one
value of a transmitted data bit

78

70

Figure 5

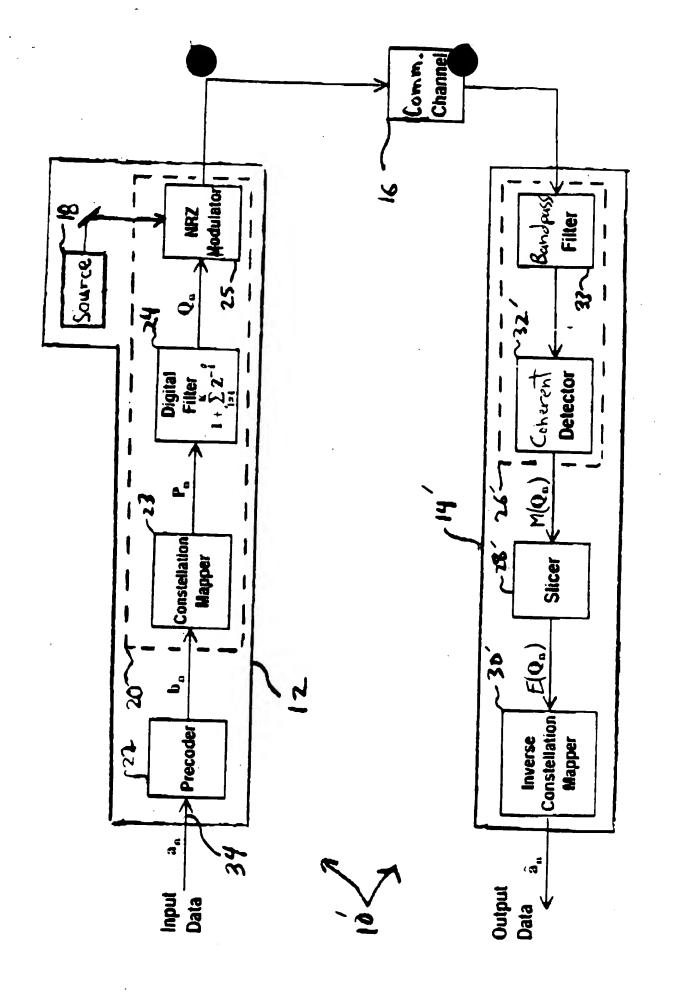


Figure 6

Filter received signal to select a carrier wave 72
Measure amplitude and sign of carrier wave 741
Estimate On for original carrier wave during signaling interval from 1761 the measured amplitude and sign
The measures and sign
from the estimated value of the
symbol on estimate a value que 78
symbol on estimate a value on 178' of associated input data bit on

70'

F16. 7

Figure D

Number of Receiver Signal Amplitudes Q ²	2	က	4	ß	•••	တ
Number of Transmitter Signal Amplitudes On	က	S.	7	6	• • •	17
Loss in Receiver Sensitivity (dB)*	0	က	4.8	9	•••	6
Normalized Signal Bandwidth*	1 2	<u>-1</u> 4	1 9	-18	•••	10
Digital Filter	$\frac{1+Z^{-1}}{\text{(duobinary)}}$	$1+Z^{-1}+Z^{-2}+Z^{-3}$	$1+\sum_{i=1}^{5}Z^{-i}$	$1+\sum_{i=1}^{7}Z^{-i}$		$1+\sum_{\mathbf{i}=\mathbf{l}}\mathbf{Z}^{-\mathbf{i}}$

*Relative to a baseline on/off NRZ modulation.

16 g